RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/517, 622_

Source: _PCT_

Date Processed by STIC: _09/29/2005_

ENTERED

PCT

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 3 <110> APPLICANT: ROIG AMOROS, Joan
 4        BELHAM, Christopher
 5        AVRUCH, Joseph
 7 <120> TITLE OF INVENTION: Identification of Inhibitors of Mitosis
 9 <130> FILE REFERENCE: MGH-006.1P US
11 <140> CURRENT APPLICATION NUMBER: 10/517,622
12 <141> CURRENT FILING DATE: 2004-12-10
14 <150> PRIOR APPLICATION NUMBER: US 60/387,810
15 <151> PRIOR FILING DATE: 2002-06-11
17 <150> PRIOR APPLICATION NUMBER: PCT/US03/19743
18 <151> PRIOR FILING DATE: 2003-06-11
20 <160> NUMBER OF SEQ ID NOS: 35
22 <170> SOFTWARE: PatentIn version 3.2
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 2937
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
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34 ggcggcggcg cggcggagca ggaggaactg cactacatcc ccatccgcgt cctgggccgc     180
36 ggcgccttcg gggaagccac gctgtaccgc cgcaccgagg atgactcact ggttgtgtgg     240
38 aaggaagtcg atttgacccg gctgtctgag aaggaacgtc gtgatgcctt gaatgagata     300
40 gttattctgg cactgctgca gcacgacaac attattgcct actacaatca cttcatggac     360
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130 <211> LENGTH: 979
131 <212> TYPE: PRT
132 <213> ORGANISM: Homo sapiens
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144 Ser Ala Ser Gln Gly Pro Arg Ala Gly Gly Gly Ala Ala Glu Gln Glu
145             35                  40                  45
148 Glu Leu His Tyr Ile Pro Ile Arg Val Leu Gly Arg Gly Ala Phe Gly
149     50                  55                  60
152 Glu Ala Thr Leu Tyr Arg Arg Thr Glu Asp Asp Ser Leu Val Val Trp
153 65                  70                  75                  80
156 Lys Glu Val Asp Leu Thr Arg Leu Ser Glu Lys Glu Arg Arg Asp Ala
157             85                  90                  95
160 Leu Asn Glu Ile Val Ile Leu Ala Leu Leu Gln His Asp Asn Ile Ile
161             100                 105                 110
164 Ala Tyr Tyr Asn His Phe Met Asp Asn Thr Thr Leu Leu Ile Glu Leu
165         115                 120                 125
168 Glu Tyr Cys Asn Gly Gly Asn Leu Tyr Asp Lys Ile Leu Arg Gln Lys
169     130                 135                 140
172 Asp Lys Leu Phe Glu Glu Glu Met Val Val Trp Tyr Leu Phe Gln Ile
173 145                 150                 155                 160
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RAW SEQUENCE LISTING   DATE: 09/29/2005
PATENT APPLICATION: US/10/517,622   TIME: 08:56:23

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Output Set: N:\CRF4\09292005\J517622.raw

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177             165                 170                 175
180 Ile Lys Thr Leu Asn Ile Phe Leu Thr Lys Ala Asn Leu Ile Lys Leu
181             180                 185                 190
184 Gly Asp Tyr Gly Leu Ala Lys Lys Leu Asn Ser Glu Tyr Ser Met Ala
185         195                 200                 205
188 Glu Thr Leu Val Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Cys Gln
189     210                 215                 220
192 Gly Val Lys Tyr Asn Phe Lys Ser Asp Ile Trp Ala Val Gly Cys Val
193 225                 230                 235                 240
196 Ile Phe Glu Leu Leu Thr Leu Lys Arg Thr Phe Asp Ala Thr Asn Pro
197             245                 250                 255
200 Leu Asn Leu Cys Val Lys Ile Val Gln Gly Ile Arg Ala Met Glu Val
201             260                 265                 270
204 Asp Ser Ser Gln Tyr Ser Leu Glu Leu Ile Gln Met Val His Ser Cys
205         275                 280                 285
208 Leu Asp Gln Asp Pro Glu Gln Arg Pro Thr Ala Asp Glu Leu Leu Asp
209     290                 295                 300
212 Arg Pro Leu Leu Arg Lys Arg Arg Arg Glu Met Glu Glu Lys Val Thr
213 305                 310                 315                 320
216 Leu Leu Asn Ala Pro Thr Lys Arg Pro Arg Ser Ser Thr Val Thr Glu
217             325                 330                 335
220 Ala Pro Ile Ala Val Val Thr Ser Arg Thr Ser Glu Val Tyr Ile Trp
221         340                 345                 350
224 Gly Gly Gly Lys Ser Thr Pro Gln Lys Leu Asp Val Ile Lys Ser Gly
225         355                 360                 365
228 Cys Ser Ala Arg Gln Val Cys Ala Gly Asn Thr His Phe Ala Val Val
229     370                 375                 380
232 Thr Val Glu Lys Glu Leu Tyr Thr Trp Val Asn Met Gln Gly Gly Thr
233 385                 390                 395                 400
236 Lys Leu His Gly Gln Leu Gly His Gly Asp Lys Ala Ser Tyr Arg Gln
237             405                 410                 415
240 Pro Lys His Val Glu Lys Leu Gln Gly Lys Ala Ile His Gln Val Ser
241         420                 425                 430
244 Cys Gly Asp Asp Phe Thr Val Cys Val Thr Asp Glu Gly Gln Leu Tyr
245         435                 440                 445
248 Ala Phe Gly Ser Asp Tyr Tyr Gly Cys Met Gly Val Asp Lys Val Ala
249     450                 455                 460
252 Gly Pro Glu Val Leu Glu Pro Met Gln Leu Asn Phe Phe Leu Ser Asn
253 465                 470                 475                 480
256 Pro Val Glu Gln Val Ser Cys Gly Asp Asn His Val Val Val Leu Thr
257             485                 490                 495
260 Arg Asn Lys Glu Val Tyr Ser Trp Gly Cys Gly Glu Tyr Gly Arg Leu
261         500                 505                 510
264 Gly Leu Asp Ser Glu Glu Asp Tyr Tyr Thr Pro Gln Lys Val Asp Val
265         515                 520                 525
268 Pro Lys Ala Leu Ile Ile Val Ala Val Gln Cys Gly Cys Asp Gly Thr
269         530                 535                 540
272 Phe Leu Leu Thr Gln Ser Gly Lys Val Leu Ala Cys Gly Leu Asn Glu
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Input Set : **A:\MGH-006.1P USST25.txt**
Output Set: **N:\CRF4\09292005\J517622.raw**

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273 545                   550                   555                   560
276 Phe Asn Lys Leu Gly Leu Asn Gln Cys Met Ser Gly Ile Ile Asn His
277             565                   570                   575
280 Glu Ala Tyr His Glu Val Pro Tyr Thr Thr Ser Phe Thr Leu Ala Lys
281             580                   585                   590
284 Gln Leu Ser Phe Tyr Lys Ile Arg Thr Ile Ala Pro Gly Lys Thr His
285             595                   600                   605
288 Thr Ala Ala Ile Asp Glu Arg Gly Arg Leu Leu Thr Phe Gly Cys Asn
289         610                   615                   620
292 Lys Cys Gly Gln Leu Gly Val Gly Asn Tyr Lys Lys Arg Leu Gly Ile
293 625                   630                   635                   640
296 Asn Leu Leu Gly Gly Pro Leu Gly Gly Lys Gln Val Ile Arg Val Ser
297             645                   650                   655
300 Cys Gly Asp Glu Phe Thr Ile Ala Ala Thr Asp Asp Asn His Ile Phe
301             660                   665                   670
304 Ala Trp Gly Asn Gly Gly Asn Gly Arg Leu Ala Met Thr Pro Thr Glu
305             675                   680                   685
308 Arg Pro His Gly Ser Asp Ile Cys Thr Ser Trp Pro Arg Pro Ile Phe
309         690                   695                   700
312 Gly Ser Leu His His Val Pro Asp Leu Ser Cys Arg Gly Trp His Thr
313 705                   710                   715                   720
316 Ile Leu Ile Val Glu Lys Val Leu Asn Ser Lys Thr Ile Arg Ser Asn
317             725                   730                   735
320 Ser Ser Gly Leu Ser Ile Gly Thr Val Phe Gln Ser Ser Ser Pro Gly
321             740                   745                   750
324 Gly Gly Gly Gly Gly Gly Gly Gly Glu Glu Glu Asp Ser Gln Gln Glu
325             755                   760                   765
328 Ser Glu Thr Pro Asp Pro Ser Gly Gly Phe Arg Gly Thr Met Glu Ala
329         770                   775                   780
332 Asp Arg Gly Met Glu Gly Leu Ile Ser Pro Thr Glu Ala Met Gly Asn
333 785                   790                   795                   800
336 Ser Asn Gly Ala Ser Ser Ser Cys Pro Gly Trp Leu Arg Lys Glu Leu
337             805                   810                   815
340 Glu Asn Ala Glu Phe Ile Pro Met Pro Asp Ser Pro Ser Pro Leu Ser
341             820                   825                   830
344 Ala Ala Phe Ser Glu Ser Glu Lys Asp Thr Leu Pro Tyr Glu Glu Leu
345             835                   840                   845
348 Gln Gly Leu Lys Val Ala Ser Glu Ala Pro Leu Glu His Lys Pro Gln
349         850                   855                   860
352 Val Glu Ala Ser Ser Pro Arg Leu Asn Pro Ala Val Thr Cys Ala Gly
353 865                   870                   875                   880
356 Lys Gly Thr Pro Leu Thr Pro Pro Ala Cys Ala Cys Ser Ser Leu Gln
357             885                   890                   895
360 Val Glu Val Glu Arg Leu Gln Gly Leu Val Leu Lys Cys Leu Ala Glu
361             900                   905                   910
364 Gln Gln Lys Leu Gln Gln Glu Asn Leu Gln Ile Phe Thr Gln Leu Gln
365             915                   920                   925
368 Lys Leu Asn Lys Lys Leu Glu Gly Gly Gln Gln Val Gly Met His Ser
369         930                   935                   940
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372 Lys Gly Thr Gln Thr Ala Lys Glu Glu Met Glu Met Asp Pro Lys Pro
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385 <211> LENGTH: 939
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394 tcgctggcgg acttccagat cgaaaagaag ataggccgag gacagttcag cgaggtgtac    180
396 aaggccacct gcctgctgga caggaagaca gtggctctga agaaggtgca gatctttgag    240
398 atgatggacg ccaaggcgag gcaggactgt gtcaaggaga tcggcctctt gaagcaactg    300
400 aaccacccaa atatcatcaa gtatttggac tcgtttatcg aagacaacga gctgaacatt    360
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414 gcagccctcc agagcccctt ctatggagat aagatgaatc tcttctccct gtgccagaag    780
416 atcgagcagt gtgactaccc cccactcccc ggggagcact actccgagaa gttacgagaa    840
418 ctggtcagca tgtgcatctg ccctgacccc caccagagac ctgacatcgg atacgtgcac    900
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425 <212> TYPE: PRT
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438 Pro Asn Thr Leu Ser Phe Arg Cys Ser Leu Ala Asp Phe Gln Ile Glu
439                 35                 40                 45
442 Lys Lys Ile Gly Arg Gly Gln Phe Ser Glu Val Tyr Lys Ala Thr Cys
443         50                 55                 60
446 Leu Leu Asp Arg Lys Thr Val Ala Leu Lys Lys Val Gln Ile Phe Glu
447 65                 70                 75                 80
450 Met Met Asp Ala Lys Ala Arg Gln Asp Cys Val Lys Glu Ile Gly Leu
451                 85                 90                 95
454 Leu Lys Gln Leu Asn His Pro Asn Ile Ile Lys Tyr Leu Asp Ser Phe
455                 100                105                110
458 Ile Glu Asp Asn Glu Leu Asn Ile Val Leu Glu Leu Ala Asp Ala Gly
459                 115                120                125
462 Asp Leu Ser Gln Met Ile Lys Tyr Phe Lys Lys Gln Lys Arg Leu Ile
463         130                135                140
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/29/2005
PATENT APPLICATION: US/10/517,622   TIME: 08:56:24

Input Set : **A:\MGH-006.1P USST25.txt**
Output Set: **N:\CRF4\09292005\J517622.raw**

<u>Invalid <213> Response:</u>
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9,10,11,12,13,14,15,16,17,18,21,22,27,31,32,33,34,35

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/517,622**

DATE: 09/29/2005
TIME: 08:56:24

Input Set : **A:\MGH-006.1P USST25.txt**
Output Set: **N:\CRF4\09292005\J517622.raw**